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|--------------------------------------------------------------------------------------|--|------------------------------------------------------------|--|--------------------------------------------|--|----------------------------|--|
| FORM PTO-1449 (REV. 7-80) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO.: 346.1004DIV | | SERIAL NO.: To be Assigned | |
| LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary) | | | | APPLICANT(S): Philip Henry Donald EASTLAND | | | |
| | | | | FILING DATE: Herewith | | GROUP: To be Assigned | |

| U.S. PATENT DOCUMENTS | | | | | | | | | | | | | |
|-----------------------|-----------------|---|---|---|---|---|---|---|------------|------------------|-------|----------|-------------------------------|
| *EXAMINER INITIAL | DOCUMENT NUMBER | 5 | 8 | 2 | 7 | 9 | 0 | 1 | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| JP | AA | 5 | 8 | 2 | 7 | 9 | 0 | 1 | 10/27/1998 | KONIG et al. | 518 | 706 | |
| JP | AB | 5 | 4 | 2 | 7 | 7 | 6 | 0 | 06/27/1995 | GROTZ | 423 | 360 | |
| JP | AC | 4 | 8 | 6 | 7 | 9 | 5 | 9 | 09/19/1989 | GROTZ | 423 | 360 | |
| JP | AD | 4 | 5 | 6 | 8 | 5 | 3 | 0 | 02/04/1986 | MANDELIK et al. | 423 | 359 | |
| JP | AE | 4 | 3 | 2 | 1 | 2 | 3 | 4 | 03/23/1982 | OHSAKI et al. | 422 | 200 | |
| JP | AF | 4 | 2 | 3 | 5 | 7 | 9 | 9 | 11/25/1980 | WENTWORTH et al. | 260 | 449.5 | |
| JP | AG | 1 | 8 | 6 | 8 | 0 | 9 | 6 | 07/19/1932 | DREYFUS | | | |
| JP | AH | | | | | | | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | | | | | | | |
|--------------------------|----|---|---|---|---|---|---|---|------------|---------|-------|----------|-------------|----|
| DOCUMENT NUMBER | 5 | 8 | 2 | 7 | 9 | 0 | 1 | 9 | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | | | | | | | | | | | | | YES | NO |
| JP | AI | 8 | 6 | 0 | 8 | 9 | 1 | 9 | 10/16/1994 | Spain | | | Yes | |
| | AJ | | | | | | | | | | | | | |
| | AK | | | | | | | | | | | | | |
| | AL | | | | | | | | | | | | | |
| | AM | | | | | | | | | | | | | |

| OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) | |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| JP | AN "MRF Reactor Commercially Proven Performance in a Methanol Plant," Crocco & Associates, Inc., page VIII-1 - VIII-10; December 1990. |
| | AO |
| | AP |
| | AQ |
| | AR |
| | AS |
| | AT |

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| EXAMINER N. Pomeroy | DATE CONSIDERED 9/30/2006 |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| U.S. PATENT DOCUMENTS | | | | | | | | | | | | | | |
|-----------------------|----|-----------------|---|---|---|---|---|---|------------|--------------------|-------------|-------|------------|-------------------------------|
| *EXAMINER INITIAL | | DOCUMENT NUMBER | | | | | | | | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| JP | AA | 3 | 9 | 5 | 0 | 3 | 6 | 9 | 04/13/1976 | GENT | 260 | 449.5 | 03/28/1974 | |
| | AB | 4 | 5 | 9 | 4 | 2 | 2 | 7 | 06/10/1986 | OHSAKI, et al. | 422 | 148 | 09/08/1983 | |
| | AC | 4 | 7 | 1 | 4 | 5 | 9 | 2 | 12/22/1987 | ZANMA, et al. | 422 | 192 | 01/09/1985 | |
| | AD | 4 | 7 | 6 | 6 | 1 | 5 | 4 | 08/23/1988 | BONNELL, et al. | 518 | 700 | 02/06/1987 | |
| | AE | 5 | 2 | 1 | 6 | 0 | 3 | 4 | 06/01/1993 | SIE | 518 | 706 | 10/28/1991 | |
| | AF | 5 | 4 | 0 | 5 | 5 | 8 | 6 | 04/11/1995 | KOVES | 422 | 218 | 06/30/1994 | |
| | AG | 5 | 5 | 1 | 2 | 2 | 5 | 5 | 04/30/1996 | COFFMAN | 422 | 201 | 12/06/1994 | |
| | AH | 5 | 6 | 1 | 0 | 2 | 0 | 2 | 03/11/1997 | MARCHIONNA, et al. | 518 | 700 | 12/22/1994 | |
| | AI | 5 | 6 | 3 | 1 | 3 | 0 | 2 | 05/20/1997 | KÖNIG, et al. | 518 | 706 | 05/08/1995 | |
| | AJ | 5 | 7 | 2 | 3 | 0 | 8 | 4 | 03/03/1998 | SHIN | 264 | 205 | 03/08/1996 | |
| | AK | 4 | 2 | 9 | 8 | 6 | 9 | 4 | 11/03/1981 | SKOV | 518 | 704 | 12/03/1979 | |
| | AL | 5 | 4 | 7 | 2 | 9 | 8 | 6 | 12/05/1995 | VAN DIJK | 518 | 705 | 11/08/1994 | |
| | AM | 2 | 1 | 4 | 9 | 5 | 1 | 5 | 03/07/1939 | FISCHER | | | 04/15/1935 | |
| | AN | 2 | 2 | 7 | 9 | 1 | 5 | 3 | 04/07/1942 | WILCOX | | | 05/19/1938 | |
| | XP | AO | 1 | 0 | 3 | 6 | 4 | 7 | 3 | 08/20/1912 | ESCHELLMANN | | | 09/18/1906 |

| FOREIGN PATENT DOCUMENTS | | | | | | | | | | | | | | | | |
|--------------------------|----|-----------------|---|---|---|---|---|---|---------|------|---------|-------|----------|-------------|----|--|
| | | DOCUMENT NUMBER | | | | | | | | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | | |
| | | | | | | | | | | | | | | YES | NO | |
| JP | AP | 9 | 9 | 5 | 9 | 9 | 4 | 5 | 11-1999 | WO | | | | | | |
| | AQ | | | | | | | | | | | | | | | |

| OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) | |
|------------------------------------------------------------------------|--|
| AR | |
| AS | |
| AT | |
| AO | |

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| EXAMINER <div style="text-align: center; font-size: 1.5em; margin-top: 10px;">K. Pau</div> | DATE CONSIDERED <div style="text-align: center; font-size: 1.5em; margin-top: 10px;">9/30/2006</div> |
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